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PTO/SB/21 (08-00)

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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number Of Pages In This Submission 18 + 67 references

Application Number 10/080,274

Filing Date February 19, 2002

First Named Inventor Jianming XIAO

Group Art Unit 1743

Examiner Name To Be Assigned

Attorney Docket No. 473532000620

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ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Licensing-related Papers
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition
<input type="checkbox"/> Affidavits/declarations	<input type="checkbox"/> Petition to Convert to a Provisional Application
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer
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<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	
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<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Status Letter
<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):

1. Form PTO-1449 - 7 pages with copy
2. Sixty-seven Reference
3. Return Receipt Postcard

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Remarks

SIGNATURE OF APPLICANT, ATTORNEY OR AGENT

Firm or Individual Name	Morrison & Foerster LLP, 755 Page Mill Road, Palo Alto, California 94304-1018 Charles D. Holland, Reg. No. 35,196
Signature	
Date	June 5, 2002

CERTIFICATE OF MAILING BY "FIRST CLASS MAIL"

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PATENT
Docket No. 47353200620

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Jianming XIAO et al.

Serial No.: 10/080,274

Filing Date: February 19, 2002

For: METHOD AND APPARATUS BASED
ON BUNDLED CAPILLARIES FOR
HIGH THROUGHPUT SCREENING

Examiner: To Be Assigned

Group Art Unit: 1743

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INFORMATION DISCLOSURE
STATEMENT UNDER 37 C.F.R. § 1.97

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents numbered 1-28, 65, 66 and 99-132 are also submitted herewith. The documents numbered 29-64, 67-98 and 133-150 were previously submitted in an Information Disclosure Statement directed to the related application Serial Number 09/791,410, filed February 22, 2001, and, accordingly, copies are not included herewith. This protocol conforms with 37 C.F.R. § 1.98(d) and M.P.E.P. 609(A)(2). The Examiner is requested to make these documents of record in the application.

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Applicants bring to the attention of the Examiner, document numbers 70 and 72-76 are English-language machine translations of priority documents for document 90. Additionally, Document 71 is an English-language machine translation of a priority document for document 91.

Applicants also bring to the attention of the Examiner the following co-pending applications (copies attached):

1. Application No. 09/791,994, by Shiping Chen et al., filed February 22, 2001;
2. Application No. 09/791,998, by Shiping Chen et al., filed February 22, 2001; and
3. Application No. 09/791,441, by Shiping Chen et al., filed February 22, 2001.

This Information Disclosure Statement is submitted:

With the application; accordingly, no fee or separate requirements are required.

Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.

After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.

- A fee is required. A check in the amount of * is enclosed.
- A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
- A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly; no fee is believed to be due.

After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.

- A Certification under 37 C.F.R. § 1.97(e) is provided below and a check in the amount of * is enclosed.
- A Certification under 37 C.F.R. § 1.97(e) is provided below and a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.

Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that an extension and/or other relief is required, Applicants petition for any required relief including extensions of time and authorize the Assistant Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to Deposit Account No. 03-1952 referencing 473532000620. However, the Assistant Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: June 5, 2002

Respectfully submitted,

By: Charles D. Holland
Charles D. Holland
Registration No. 35,196

Morrison & Foerster LLP
755 Page Mill Road
Palo Alto, California 94304-1018
Telephone: (650) 813-5995
Facsimile: (650) 494-0792



Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>	Docket Number 473532000620	Application Number 10/080,274
	Applicant Jianming XIAO et al.	
	Filing Date February 19, 2002	Group Art Unit 1743
	Mailing Date June 5, 2002	

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	12/07/1976	3,996,345	Ullman et al.			
	2.	03/01/1977	4,010,019	Cole et al.			
	3.	11/13/1979	4,174,384	Ullman et al.			
	4.	04/14/1981	4,261,968	Ullman et al.			
	5.	02/21/1989	4,806,631	Carrico et al.			
	6.	04/04/1989	4,818,681	Dattagupta			
	7.	10/31/1989	4,877,745	Hayes et al.			
	8.	06/26/1990	4,937,188	Giese et al.			
	9.	01/01/1991	4,981,783	Augenlicht			
	10.	02/26/1991	4,996,143	Heller et al.			
	11.	06/18/1991	5,024,933	Yang et al.			
	12.	09/01/1992	5,143,854	Pirrung et al.			
	13.	10/20/1992	5,157,032	Barton			
	14.	06/01/1993	5,215,882	Bahl et al.			
	15.	11/30/1993	5,265,327	Faris et al.			
	16.	01/04/1994	5,276,327	Bossen et al.			
	17.	08/23/1994	5,340,716	Ullman et al.			
	18.	01/24/1995	5,384,261	Winkler et al.			
	19.	07/25/1995	5,436,327	Southern et al.			
	20.	08/29/1995	5,445,934	Fodor et al.			
	21.	12/12/1995	5,474,796	Brennan			
	22.	05/07/1996	5,514,785	Van Ness et al.			
	23.	06/11/1996	5,525,464	Drmanac et al.			
	24.	09/10/1996	5,554,744	Bhongle et al.			
	25.	10/15/1996	5,565,322	Heller			
	26.	10/15/1996	5,565,324	Still et al.			

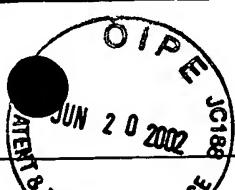
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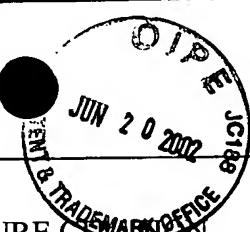
Form PTO-1449 INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION <i>(Use several sheets if necessary)</i>					Docket Number 473532000620	Application Number 10/080,274
					Applicant	Jianming XIAO et al.
					Filing Date February 19, 2002	Group Art Unit 1743
					Mailing Date June 5, 2002	

27.	01/14/1997	5,593,839	Hubbell et al.		RECEIVED	
28.	01/28/1997	5,597,696	Linn et al.		JUL 05 2002	
29.	02/11/1997	5,602,207	Boyd et al.			
30.	03/11/1997	5,610,287	Nikiforov et al.			
31.	05/20/1997	5,630,925 A	Pentoney Jr. et al.		TC 1700	
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33.	07/08/1997	5,646,001	Terstappen et al.			
34.	08/19/1997	5,658,802	Hayes et al.			
35.	11/18/1997	5,688,648	Mathies et al.			
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37.	12/23/1997	5,700,637	Southern			
38.	01/20/1998	5,709,994	Pease et al.			
39.	03/03/1998	5,723,344	Mabilat et al.			
40.	04/21/1998	5,741,554	Tisone			
41.	04/28/1998	5,744,305	Fodor et al.			
42.	06/23/1998	5,770,151	Roach et al.			
43.	06/23/1998	5,770,367	Southern et al.			
44.	06/23/1998	5,770,722	Lockhart et al.			
45.	09/01/1998	5,800,992	Fodor et al.			
46.	09/15/1998	5,807,522	Brown et al.			
47.	10/06/1998	5,817,470	Burzio et al.			
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49.	11/17/1998	5,837,832	Chee et al.			
50.	05/04/1999	5,900,481	Lough et al.			
51.	07/06/1999	5,919,523	Sundberg et al.			
52.	07/20/1999	5,925,517	Tyagi et al.			
53.	09/07/1999	5,948,624	Rothschild et al.			
54.	02/22/2000	6,027,873	Schellenberger et al.			
55.	04/11/2000	6,048,695	Bradley et al.			
56.	04/25/2000	6,054,270	Southern			
57.	07/04/2000	6,083,763	Balch			

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Form PTO-1449

INFORMATION DISCLOSURE C₁² TRADEMARK OFFICE
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number 473532000620	Application Number 10/080,274
Applicant	Jianming XIAO et al.
Filing Date February 19, 2002	Group Art Unit 1743
Mailing Date June 5, 2002	

58.	08/15/2000	6,101,946	Martinsky et al.	RECEIVED
59.	08/29/2000	6,110,426	Shalon et al.	
60.	10/24/2000	6,136,962	Shi et al.	JUL 05 2002
61.	05/15/2001	6,231,733 B1	Nilsson et al.	
62.	05/22/2001	6,235,473 B1	Friedman et al.	TC 1700
63.	12/11/2001	6,329,144 B1	Kubista et al.	
64.	12/18/2001	6,331,441 B1	Balch et al.	

Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
65.	01/26/1983	0 070 685	Europe			
66.	05/08/1996	0 710 668	Europe			
67.	11/10/1999	EP 0 955 084	Europe			
68.	11/28/2001	EP 1 157 737 A2	Europe			
69.	01/27/1995	JP 07-023995	Japan			Derwent Abstract
70.	09/12/2000	JP 2000-245460	Japan			Machine translation
71.	09/12/2000	JP 2000-245461	Japan			Machine translation
72.	10/03/2000	JP 2000-270877	Japan			Machine translation
73.	10/03/2000	JP 2000-270878	Japan			Machine translation
74.	10/03/2000	JP 2000-270879	Japan			Machine translation
75.	10/10/2000	JP 2000-279177	Japan			Machine translation
76.	12/12/2000	JP 2000-342298	Japan			Machine translation
77.	05/22/1997	WO 97/18226	WIPO			
78.	07/09/1998	WO 98/29736	WIPO			
79.	12/10/1998	WO 98/55593	WIPO			
80.	03/18/1999	WO 99/13312	WIPO			
81.	07/15/1999	WO 99/34920	WIPO			
82.	08/12/1999	WO 99/40434	WIPO			
83.	11/04/1999	WO 99/55460	WIPO			
84.	11/04/1999	WO 99/55461	WIPO			

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Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>					Docket Number 473532000620	Application Number 10/080,274
					Applicant	Jianming XIAO et al.
					Filing Date February 19, 2002	Group Art Unit 1743
					Mailing Date June 5, 2002	

85.	01/13/2000	WO 00/01798	WIPO	RECEIVED		
86.	01/13/2000	WO 00/01859	WIPO			
87.	03/16/2000	WO 00/13796	WIPO	JUL 05 2002		
88.	07/27/2000	WO 00/43752	WIPO			
89.	08/31/2000	WO 00/50871	WIPO	TC 1700		
90.	09/14/2000	WO 00/53736 A1	WIPO		Abstract	
91.	09/14/2000	WO 00/53739 A1	WIPO		Abstract	
92.	10/26/2000	WO 00/62934 A1	WIPO			
93.	11/09/2000	WO 00/66360 A1	WIPO			
94.	12/21/2000	WO 00/76662 A2	WIPO			
95.	01/25/2001	WO 01/06011 A2	WIPO			
96.	05/03/2001	WO 01/30498 A1	WIPO			
97.	05/03/2001	WO 01/31317 A1	WIPO			
98.	05/03/2001	WO 01/31333 A1	WIPO			
99.	08/30/2001	WO 01/62377	WIPO			
100.	08/30/2001	WO 01/62378	WIPO			

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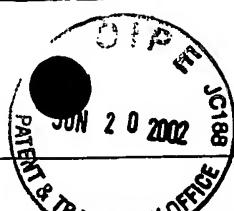
(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
	101.	Altschul et al. (1990). "Basic Local Alignment Search Tool," <i>J. Mol. Biol.</i> 215:403-410.
	102.	Ayadim et al. (1995). "Photosensitizers Covalently Anchored to the Silica Surface: Modulation of the Excited State Efficiency through Electron Transfer from the Linking Arm or from the Surface," <i>Tetrahedron Letts.</i> 36:4615-4618.
	103.	Bannwarth et al. (1988). "Bathophenanthroline-ruthenium(II) Complexes as Non-Radioactive Labels for Oligonucleotides which Can Be Measured by Time-Resolved Fluorescence Techniques," <i>Helvetica Chimica Acta</i> 71:2085-2099.
	104.	Beier et al. (May 1, 1999). "Versatile Derivatisation of Solid Support Media for Covalent Bonding on DNA-Microchips," <i>Nucl. Acids Res.</i> 27(9):1970-1977.
	105.	Bhatia et al. (1989). "Use of Thiol-Terminal Silanes and Heterobifunctional Crosslinkers for Immobilization of Antibodies on Silica Surfaces," <i>Anal. Biochem.</i> 178:408-413.
	106.	Brown et al. (September 1995). "A Single-Bead Decode Strategy Using Electrospray Ionization Mass Spectrometry and a New Photolabile Linker: 3-Amino-3-(2-Nitrophenyl)Propionic Acid," <i>Molecular Diversity</i> 1(1):4-12.

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Form PTO-1449
INFORMATION DISCLOSURE STATEMENT
IN AN APPLICATION
(Use several sheets if necessary)

Docket Number 473532000620	Application Number 10380274
Applicant Jiamming XIAO et al.	
Filing Date February 19, 2002	Group Art Unit 143
Mailing Date June 5, 2002	

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	107.	Camilleri, P., ed. (1998). <u>Capillary Electrophoresis: Theory and Practice</u> . Second Edition, CRC Press; New York, NY. 2 pages total (Table of Contents only).
	108.	Cardullo et al. (1988). "Detection of Nucleic Acid Hybridization by Nonradiative Fluorescence Resonance Energy Transfer," <i>PNAS USA</i> 85:8790-8794.
	109.	Comley et al. (1997). "A 384-HTS for Human Factor VIIa: Comparison With 96- and 864-Well Formats," <i>J. Biomol. Screening</i> 2(3):171-178.
	110.	DeRisi et al. (1996). "Use of a cDNA Microarray to Analyse Gene Expression Patterns in Human Cancer," <i>Natural Genetics</i> 14:457-460.
	111.	Devereux et al. (1984). "A Comprehensive Set of Sequence Analysis Programs for the VAX," <i>Nucl. Acid Res.</i> 12:387-395.
	112.	Dorman et al. (February 2000). "Using Photolabile Ligands in Drug Discovery and Development," <i>Trends Biotechnol.</i> 18:64-77.
	113.	Eisen, M.B. and Brown, P.O. (1999). "12 DNA Arrays for Analysis of Gene Expression," <i>Method in Enzymology</i> , 303:179-205.
	114.	Hermanson, G.T. (1995). <u>Bioconjugate Techniques</u> . Academic Press, pp. ix-xx. (Table of Contents only).
	115.	Holmstrøm et al. (1993). "A Highly Sensitive and Fast Nonradioactive Method for Detection of Polymerase Chain Reaction Products," <i>Anal. Biochem</i> 209:278-283.
	116.	Ishiguro et al. (1996). "Fluorescence Detection of Specific Sequence of Nucleic Acids by Oxazole Yellow-Linked Oligonucleotides. Homogeneous Quantitative Monitoring of <i>in vitro</i> Transcription," <i>Nucl. Acids Res.</i> 24(24):4992-4997.
	117.	Karlsson, K-A. (1986). "Animal Glycolipids as Attachment Sites for Microbes," <i>Chemistry and Physics of Lipids</i> 42:153-172.
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	119.	Lashkari D. A. et al. (November 1997). "Yeast Microarrays for Genome Wide Parallel Genetic and Gene Expression Analysis," <i>Proc. Natl. Acad. Sci. USA Genetics</i> 94:13057-13062.
	120.	Lemieux, B. et al. (1998). "Overview of DNA Chip Technology," <i>Molecular Breeding</i> , 4:277-289.
	121.	McInnes et al. (1990). "Preparation and Uses of Photobiotin," <i>Meth. Enzymol.</i> 184:588-600.
	122.	Mirzabekov et al. (2002). "Emerging Array-Based Technologies in Proteomics," <i>Curr. Opin. Chem. Biol.</i> 6:70-75.
	123.	Mousses et al. (2001). "Clinical and Functional Target Validation Using Tissue and Cell Microarrays," <i>Curr. Opin. Chem. Biol.</i> 6:97-101.
	124.	Narang et al. (1997). "A Displacement Flow Immunosensor for Explosive Detection Using Microcapillaries," <i>Anal. Chem.</i> 69:2779-2785.

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Form PTO-1449		Docket Number 473532000620	Application Number 09/80,274
INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION		Applicant Jianming XIAO et al.	
(Use several sheets if necessary)		Filing Date February 19, 2002	Group Art Unit 1743
		Mailing Date June 5, 2002	

125.	Newton et al. (1993). "The Production of PCR Products with 5' Single-Stranded Tails Using Primers that Incorporate Novel Phosphoramidite Intermediates," <i>Nucl. Acids Res.</i> 21:1155-1162.
126.	Olejnik, J. et al. (October 1996). "Photocleavable Biotin Phosphoramidite for 5'-End-Labeling, Affinity Purification and Phosphorylation of Synthetic Oligonucleotides," <i>Nucl. Acids Res.</i> 24(2):361-366.
127.	Pearson et al. (1988). "Improved Tools for Biological Sequence Comparison," <i>PNAS USA</i> 85:2444-2448.
128.	Pinkel, D. et al. (October 1998). "High Resolution Analysis of DNA Copy Number Variation Using Comparative Genomic Hybridization to Microarrays," <i>Nat. Genet.</i> 20:207-211.
129.	Reininger-Mack et al. (2002). "3D-Biohybrid Systems: Applications in Drug Screening," <i>Trends Biotechnol</i> 20:56-61.
130.	Rogers, Y.H. et al. (January 1, 1999). "Immobilization of Oligonucleotides onto a Glass Support via Disulfide Bonds: A Method for Preparation of DNA Microarrays," <i>Anal. Biochem.</i> 266(1):23-30.
131.	Running et al. (1990). "A Procedure for Productive Coupling of Synthetic Oligonucleotides to Polystyrene Microtiter Wells for Hybridization Capture," <i>BioTechniques</i> 8(3):276-277.
132.	Sano, T. et al. (December 1991). "A Streptavidin-Protein A Chimera that Allows One-Step Production of a Variety of Specific Antibody Conjugates," <i>Bio/Technol.</i> 9:1378-1381.
133.	Schena et al. (1996). "Parallel Human Genome Analysis: Microarray-Based Expression Monitoring of 1000 Genes," <i>PNAS. USA</i> 93:10614-10619.
134.	Schena, M. (1996). "Genome Analysis with Gene Expression Microarrays," <i>BioEssays</i> , 18(5):427-431.
135.	Schena, M. et al. (October 20, 1995). "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> 270:467-470.
136.	Schena, M. et al. (July 1998). "Microarrays: Biotechnology's Discovery Platform for Functional Genomics," <i>TIBTECH</i> 16(7):301-306.
137.	Shalon et al. (1996). "A DNA Microarray System for Analyzing Complex DNA Samples Using Two-Color Fluorescent Probe Hybridization," <i>Genome Res</i> 6:639-645.
138.	Shriver-Lake et al. (1997). "Antibody Immobilization Using Heterobifunctional Crosslinkers," <i>Biosens. Bioelect.</i> 12(11):1101-1106.
139.	Stryer, L. (1988). <u>Biochemistry</u> . 3rd Ed. W.H. Freeman and Company:New York. pp. vii-xxiii. (Table of Contents).
140.	Svanvik et al. (2000). "Light-Up Probes: Thiazole Orange-Conjugated Peptide Nucleic Acid for Detection of Target Nucleic Acid in Homogeneous Solution," <i>Anal. Biochem.</i> 281:26-35.
141.	Torelli et al. (1994). "ADVANCE and ADAM: Two Algorithms for the Analysis of Global Similarity Between Homologous Informational Sequences," <i>Comput. Appl. Biosci.</i> 10(1):3-5.

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(Use several sheets if necessary)

Docket Number 473532000620	Application Number 10/080,274
Applicant	Jianming XIAO et al.
Filing Date February 19, 2002	Group Art Unit 1743
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EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.